



DEPSTM

Digital Evidence Presentation System



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COURTROOM PRESENTATION, ANNOTATION & PRESERVATION

HIGH RESOLUTION DIGITAL IMAGE CONTROL AND DISTRIBUTION

Digital Evidence Presentation System™

User's Guide

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Safety Instructions

Carefully review the following guidelines to protect yourself from possible injury or from damaging the Digital Evidence Presentation System (DEPS).

- 1.) Always unplug the system from all power supplies when connecting any cables.
- 2.) Always make sure the power is turned off on every component before plugging the DEPS into a power outlet.
- 3.) Never open the casings of any component.
- 4.) Never remove the back steel shielding of the DEPS.



DEPS produces high voltage energy hazards, which can cause bodily injury. Only certified DOAR service personnel are authorized to maintain this unit or remove component covers.



Opening the back of the DEPS electronic cabinet, which has been sealed for the client's and DOAR's protection, is considered a violation of DOAR's warranty of service and support and a violation of the Customer License Agreement. In addition, DOAR has invested significant capital and personnel resources in the design of DEPS, its components, connectivity and integration and thus represents significant and valuable intellectual property. Any copying, imitating, or designing based upon DOAR's proprietary implementation of DEPS is a violation of intellectual property rights. The seals and plate covers to this unit represent our protection of those rights and can only be opened by qualified and authorized DOAR personnel. If you have any questions, please call DOAR at 516/536-6400. Thank you.

Introduction

Congratulations on your purchase of DOAR's Digital Evidence Presentation System™ (DEPS). You will find that courtroom display of video and digital information has never been so compelling and easy to use.

With the DEPS Integrated Remote Control system you can instantly select the desired input sources and which monitors will display your evidence, in addition to controlling the integrated components. Plus, highlighting and annotating exhibits is easy using DOAR's Illustrator. Emphasizing evidence areas or having witnesses demonstrate situations right before the jurors' eyes is an invaluable asset. In conjunction, the Visual Image Printer allows you to create instant color photos in 60 seconds from DOAR's Communicator, computer, or any video source, instantly preserving your evidence. You can even capture and annotate a particular frame from video and print it out as a new exhibit. These integrated features allow you to maintain the jury's interest throughout the trial, as you focus their attention on the key facts contained in your documents, photos, graphics or depositions.

Evidence and courtroom presentation is maturing into a powerful new capability for judges, attorneys and court administrators. DOAR's Digital Evidence Presentation System represents a technological philosophy and implementation methodology that will grow with the judicial system into the 21st Century. DOAR's design is based upon 9 years of experience and over 3,500 legal clients utilizing our evidence systems and trial support. DEPS relies on the integration of video and digital display technology with options to combine real time reporting, video conferencing, and computer-based evidence system. DOAR's Communicator document camera and presentation enhancement equipment completes this coherent presentation facility. DEPS is housed in a handsome, portable cabinet that is controlled by a state-of-the-art (and easy to use) remote control system. Installing DEPS takes minutes through a single interface panel. The system comes with training, on-call support and complete service. This total solution is being used throughout the U.S. Attorney Offices, Federal and State Courts.

The Core

At the center of a versatile trial presentation system is DOAR's Communicator document camera. This unit has been specifically developed for the trial attorney. Complete with auto-focus, motorized zoom, built-in preview monitor, integrated computer graphics display, wireless transmission for video systems (the wireless option is not included in the base DEPS system), video cabling, and training video. Special adapter lenses are also available for very close inspection of small objects. Combined with our **24-hour/7 day a week** on-call trial support, this system is the preferred choice over "box-generic" solutions. Once you have had the pleasure of using the Communicator, you will find it to be an invaluable resource for evidence presentation.

The Integration

The additional components of DEPS have been carefully selected for future growth, high resolution monitor support and systems integration. Some of these advances include:

1. Custom portable cabinet with external connections to all computers, Communicator and display devices. An alternative option is the Winged Cabinet (with elegant wood finish) including extended side panels for evidence organization and optional rotating podium capabilities.
2. Integrated switcher and line doubler, which controls all inputs into the system, both video and computer.
3. Illustrator for on screen annotation of any input.
4. Courtroom Director for display distribution to individual monitors or courtroom projector.
5. Visual Image Printer to produce hard copy color prints for evidence preservation.
6. Custom control system to manage inputs, outputs, VCR and audio. System may also be configured to control courtroom lighting and other requirements (contact DOAR for additional information).
7. On call support and service.
8. Upgrade path for video conferencing, real time court reporting, and computer evidence presentation.
9. Universal interface panel to support multiple computer and video inputs, outputs, tablets, light pen and many other options.

The Service

DOAR prides itself on providing “full solution” trial presentation technologies. **We work exclusively with attorneys, prosecutors and the courts.** We service and support all systems, provide training videos, and on-site, in-depth training programs. We exclusively install the systems and stand behind everything we provide. With over 3,500 clients -- law firms, prosecutors, U.S. Attorneys and courts -- we are the only providers of this unique, personal and supportive service. DOAR becomes an extension of your organization, ready to help you ***“elevate the art and science of***
TM

DOAR is also available to consult on trials, generate demonstrative evidence graphics, create imaging solutions for digital trials, and support clients with our litigation associates at trial. This is especially useful in complex litigation. Please do not hesitate to call DOAR at (800) 875-8705 for information on any of these products and services.

About the User's Manual

This manual provides the owner and operator of the Digital Evidence Presentation System with the basic information needed to operate the DEPS in court, arbitration, settlement conference, etc. A more in-depth description of each aspect of the system, and how it is used, is included with each DEPS and is tailored to reflect the specific options you have chosen. DOAR has made every effort to compile a comprehensive guide for the user. This on-line manual covers the overall functionality, operation and control of the DEPS. If you should encounter situations beyond the scope of this manual, please call DOAR's **24-hour / 7 day a week** service and support line at (800) 875-8705.

DEPS Component Overview

Each DEPS component offers a specific feature and has been custom configured by DOAR to provide the most effective courtroom presentations. The following chapters describe in greater detail how each individual component operates and how to connect DEPS with the outside world.

The DEPS Cabinet

The DEPS cabinet was specifically designed to house multiple presentation technologies in a single, compact and elegant unit. This design gives the user easy access and mobility.

DOAR's DEPS cabinet offers elegant style and technical efficiency. Composed of high-grade steel (or optional reinforced wood design as can be seen here), the cabinet has been custom built by the finest engineers and craftsmen to insure both sturdy construction and minimal intrusion in the courtroom setting. The top for the cabinet can be used to support the Communicator (or as an optional podium). If the Communicator is placed elsewhere in the courtroom, then the cabinet can be positioned in an unobtrusive area, or in an infrastructure closet. Please call DOAR regarding possible courtroom design arrangements, especially if one is contemplating using DEPS in a new or redesigned courtroom facility. Chapter Three outlines the standard layout of a courtroom and the respective location of a the portable DEPS technology.



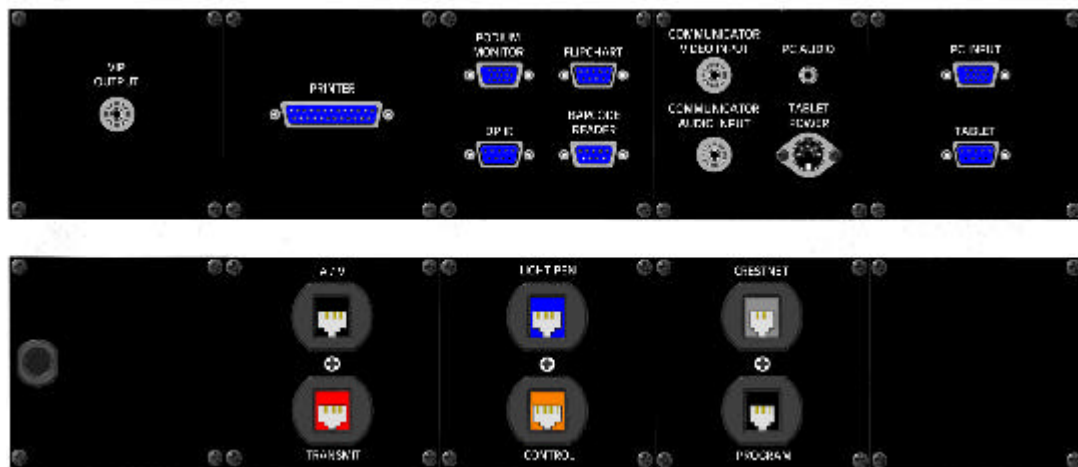
DOAR's Original DEPS Wood Podium - 1996

The Interface Panel

The back interface panel is the gateway to the DEPS. Shown here to illustrate the detail that DOAR has undertaken to make connections in the courtroom are two examples of available interface options. Each system panel is unique, as the DEPS has been specifically designed for your installation, and therefore requires specific connection configurations. You should reference your specific users' manual for connection information.



DEPS Interface Panel



Customized DEPS Panel Layout



The interface panel layout may vary dependant on the DEPS chosen. All functions operate as described below independent of selected options.

DOAR's Communicator

DOAR's **Communicator** has the capability to project photos, documents, books, 3-D objects, x-rays (positive & negative) fingerprints, DNA autorads, transparencies, etc. The Communicator boasts many advanced features including auto-focus, negative/positive switching and additional input sources for video. The motorized zoom function allows you to quickly magnify the most critical areas of an exhibit for display. The Communicator is the most practical presentation system for pre-trial discovery, depositions, settlement conferences, ADR and trials. DOAR's Communicator has been designed with a number of key functions to make it more effective for courtrooms and attorneys. The Communicator includes a built-in 3" color monitor for previewing exhibits, and is connected to DEPS via a single S-video cable.

DOAR's Illustrator

The Illustrator is used to draw, annotate and place emphasis pointers on evidence displays, in vivid color. A tablet is used to make these markings with a 'screen area' on the tablet corresponding to an area on the TV. Two tablets are included with DEPS: one for the attorney and the other for the witness.

DOAR's Visual Image Printer

Visual Image Printer allows you to create 3" x 5" instant color photos in 60 seconds from DOAR's Communicator, VCR or computer source. This is very useful for evidence preservation or handouts to the jury. Please note that computer images are converted up to 800x600 resolution via DOAR's Visual Computer Link.

DOAR's Integrated Switcher & Line Doubler

The Integrated Switcher & Line Doubler is designed to convert DOAR's Communicator input, and regular video (such as a VCR or broadcast television), into a higher quality IDTV (Improved Definition Television) output. The concept of DOAR's Line Doubler is to increase the quality of video output to that which is more comparable to VGA computer quality, without the noticeable scan lines. DOAR's Line Doubler is a high resolution, digital video line doubler that not only doubles the resolution of standard video (at 525 lines) to 1050 lines but also eliminates most of the chroma noise found in standard video signals. This device cleans-up low quality videotape playback so that the image is insured to be stable and sharp in the highest resolution possible.

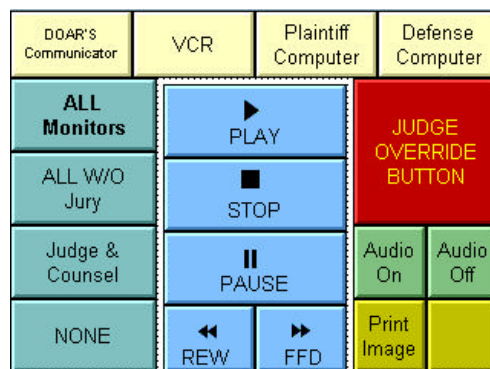
This device also acts as a 4-input switcher. It accepts inputs from the Communicator, VCR and computers by Plaintiff/Prosecution and Defense. As the inputs are accepted, all resolutions are adjusted and maximum quality output is attained. This device also switches and rebalances audio (between mic and line levels) to provide a single audio output feed to your courtroom sound system.

DOAR's Courtroom Director

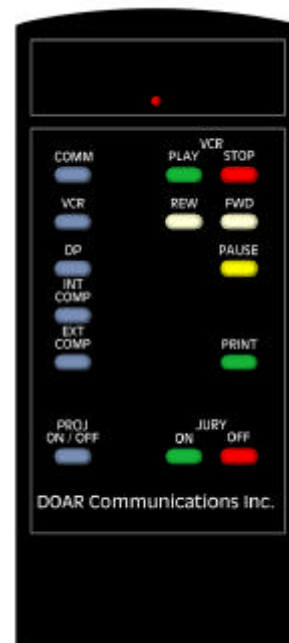
Courtroom Director is an optional multi-output monitor control system. DOAR's Courtroom Director allows the judge or the clerk to control what is viewed on each and every monitor in the courtroom. For instance, during a side bar, the clerk can limit the video publication of evidence to the judge's monitor only. The Remote Control can be customized to allow different configurations of monitor output. The Courtroom Director also permits long runs of cable between DEPS and monitors in the courtroom.

DOAR's Control System

The Control System provides the interface between the wireless remote control and the operation of a number of key DEPS features. The Control System operates input selection, output selection, VCR control, and printer control. Multiple Remotes may be used in the courtroom and DOAR is able to customize remotes for specific courtroom use, such as lighting control. Call DOAR for more details on customizing the Control System. The following are examples of our standard pushbutton remote and LCD touch-panel remote controls. Dependant on your system options, the controls may vary slightly.



TOUCH-PANEL REMOTE



PUSH-BUTTON REMOTE

VCR Tape System

DOAR offers state of the art 4-head VCR systems with accurate freeze frame control and the interface to our Remote Control System for simple deck control, such as forward, reverse, pause, etc. The VCR has its own input into DEPS so images may be illustrated and printed.

Connecting DEPS to the External Devices

Courtroom Layout Strategies

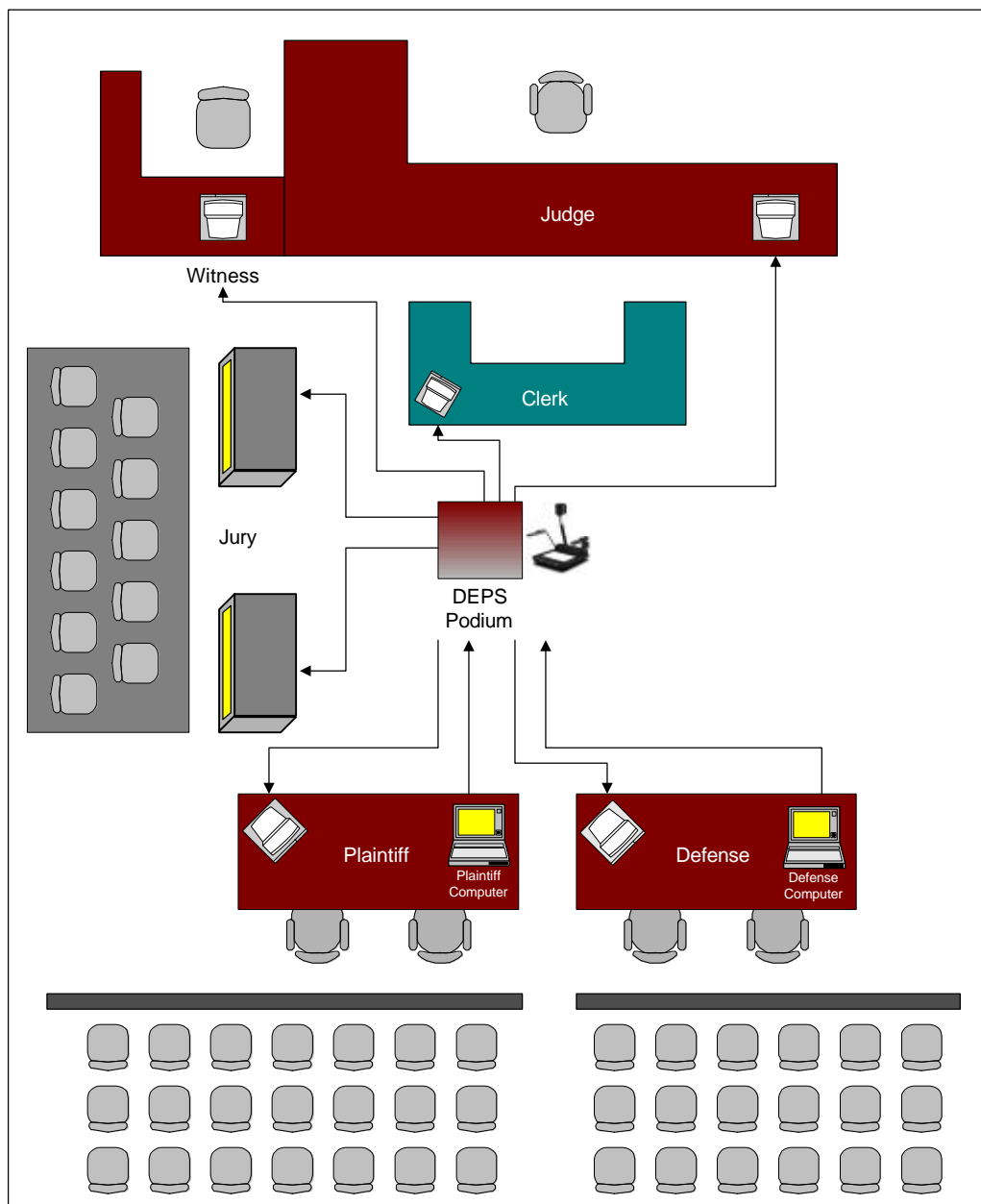
The diagram on the following page illustrates a standard portable courtroom DEPS setup. In this design, the DEPS is considered the courtroom podium with the Communicator adjacent to the cabinet. Each counsel table has an attorney computer and monitor connected to DEPS as well as a display monitor from the DEPS system. In addition, monitors exist for the jury, judge and witness. The VCR and Printer are contained within DEPS and are controlled by the Remote Control.

A typical alternative to this approach is it to utilize a digital projector in the courtroom. This is very common in fixed installations, and lends itself to portable systems where portability is a major concern, or the size of the courtroom is an issue.



This is only a possible approach to designing the courtroom layout and DEPS integration. Additional options greatly increase the possible functionality. Please contact DOAR to discuss additional functionality choices, and layout scenarios.

DOAR'S DIGITAL EVIDENCE
PRESENTATION SYSTEM



- Typical Portable Set-up-

Installation of Equipment

VCR

The VCR must be set to “CH AU”, by pressing the Channel ↓ button. All connections are internal, and the unit is operated using the standard controls on the remote.



It is critical that you press the Channel ↓ until “CH AU” is displayed on the front of the VCR.

DOAR's Communicator

Accessories

1. DOAR's Communicator
2. Power Supply Cable
3. Video Cable
4. 3" monitor with bracket attachment, power supply and video cable.

Power Connection

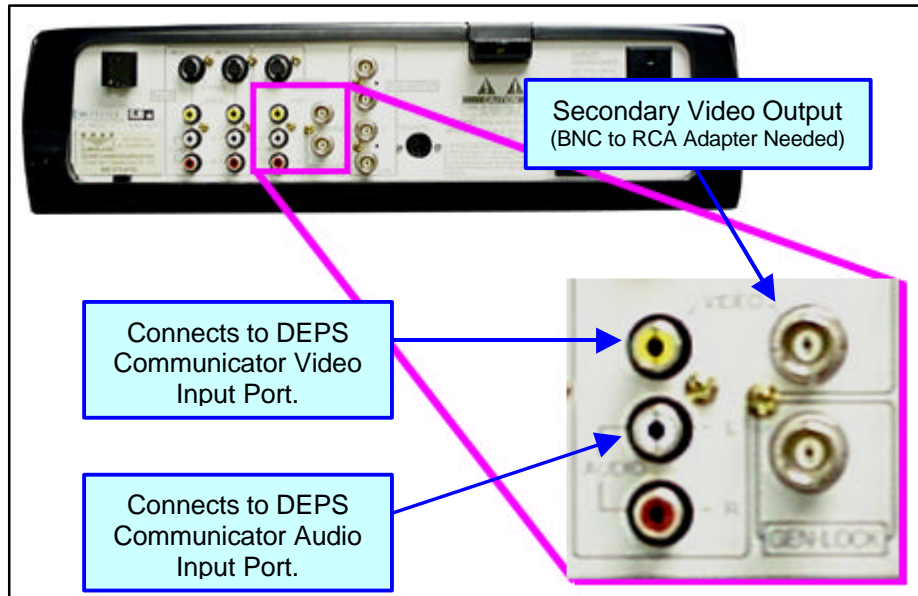
Connect the supplied power cable to the AC IN connector. The other end to the cable is connected to the power outlet.



- **Be sure to turn the power off before making connections (in order to protect the Communicator and the DEPS) .**
- **Hold the cable plug firmly when disconnecting the video cable.**

Audio and Video Connection

Connect one end of the video output cable to the Video output terminal of the Communicator and the other end to the Communicator Video Input of the DEPS.



3" TV Monitor

The 3" TV attaches to the bracket on the back of the Communicator. The yellow video cable connects to the video out (a BNC to RCA connector may be necessary) on the back of the Communicator and the video in plug on the monitor. The AC adapter uses the power source on the back of the Communicator and connects to DC in on the monitor. Use the brightness knob to adjust for contrast. Contrast is effected by viewing angle, so you may need to adjust the brightness knob once the Communicator is set up for courtroom use.

DOAR's Illustrator

Accessories

1. 2 Tablet Pads (or optional Light Pen)
2. 5V Power Adapter
3. Extension Cable

Because the Illustrator can accept multiple configurations between the tablet pads and light pen, the connections to the DEPS vary. The connections are clearly labeled on the back-panel of the system, and are outlined in each specific system's manual.



The Illustrator can only support a maximum of 2 input devices. This can be a combination of a light pen and tablet, 2 tablets, or one of either device. For information on these options, please contact DOAR at (800)875-8705.

DOAR's Visual Image Printer

The DOAR Visual Image Printer (VIP) has been designed to provide quick, high quality prints of your evidence. All connections are factory installed internally. Therefore, by simply pressing "PRINT" on the Remote Control, a vivid photo of the currently displayed item will be produced in approximately 60 seconds.

The VIP generates these photos by using special ink and paper. Your system may come preinstalled with a small amount of supplies used during testing of the DEPS. For information on installing additional supplies, please refer to your system's specific manual for details.

To obtain additional supplies, call DOAR at (800) 875-8705.

Physical Connections Warning



IMPORTANT – PLEASE READ



It is important that you completely POWER DOWN DEPS before connecting anything to the back panel. You must then re-power everything back up again to regain all the settings. If a change is made to the back panel, especially items such as the Illustrator pad, you must COMPLETELY RE-POWER DEPS with the master switch to recognize all the changes.

Operating the System

Communicator Overview

DOAR's Communicator is an easy-to-operate and portable evidence presentation system. This unit is equipped with a high-resolution CCD camera and features an 8-10X magnification zoom lens and a high accuracy auto focusing system. The Communicator presents all types of presentation materials to view or record through monitors, e.g. 3-D objects, paper documents, transparencies, x-rays, etc.

Presenting with the Communicator

Simple Steps For Presenting Materials

- 1) Turn 'ON' the power switch of your Communicator.
 - Connection to the monitor should be previously executed.
 - The initial settings are displayed by their respective indicators.
- 2) Place the object on the white stage. While you observe the image on the 3" TV monitor, adjust the zoom to obtain the optimum size.
- 3) Press the auto focus button (or fine-tune the image using the manual focus).
 - Pay attention to depth of field with 3-Dimensional objects. You may need to focus again, or even to rotate the camera head and remove the close-up lens to focus from a distance (this is only for a very large object.)

Simple Steps for Viewing Transparencies or Slide Film

- 1) When you press the lamp button (BASE), the lighting switches from the “UPPER” lamps to the built-in base-light lamp.
- 2) For 35mm negatives, press and hold the column lock button (located in the middle of the camera arm), then set the camera head to its lowest position.
- 3) Press the nega/posi conversion button. The indicator will show (N) (negative) mode. You may want to adjust the Iris to over expose for a better color reproduction.
- 4) When turning off the baselight, press the lighting button (UPPER) again.

For Use as a Conventional Video Camera

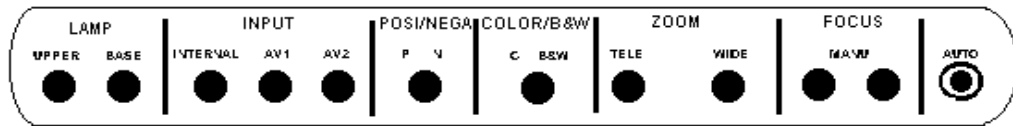
- 1) The close-up lens should be removed when you are shooting the object at a distance.
- 2) The camera head can be rotated to the horizontal position. This allows you to present images from far away.

Using a Microphone or Other Audio Source

You may connect an optional microphone into the mic. Jack on the side of the Communicator. A volume scale allows you to adjust the audio strength.

Various Communicator Functions

Lighting



These buttons are used to turn on/off the lights. There are two lighting units. They are as follows:

Upper: The upper lighting unit is used for viewing materials such as printed matter and 3-D objects.

Base: The Base light unit is used for viewing slides, transparencies, X-rays etc.



When the lighting button is pressed, the indicator flashes, and after a few seconds, the upper fluorescent lamps turn on. To turn the lamps off, press the lighting button again. Select the (UPPER) or (BASE) mode. (It is not possible to use both the upper lighting unit and the baselight). It is advisable to use the upper lighting unit to obtain a clear image with better color rendering especially when the stage is not sufficiently lighted.

Input Selection

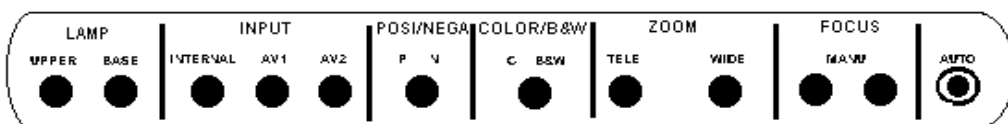


Input selection lets you select the input you would like to show on the monitors or to change input line. There are three input selector options. They are as follows:

Internal: Displays whatever is in the view of the Communicator.

AV1 & AV2: Inputs from two separate AV sources are available to be projected on the monitors by pressing one of the input selection buttons.

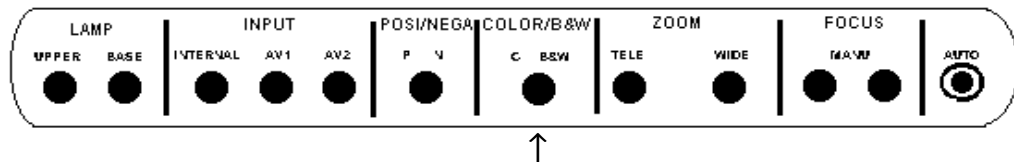
Nega/Posi Conversion





This function is used to view negative film as a positive image. Press the Posi/Nega conversion button, and the indicator shows (N) (negative). If you press the button again, it changes to normal (P) (positive) mode. This is a very useful function for 35mm slides, x-rays, MRIs and auto-rads.

Color/B&W Selection

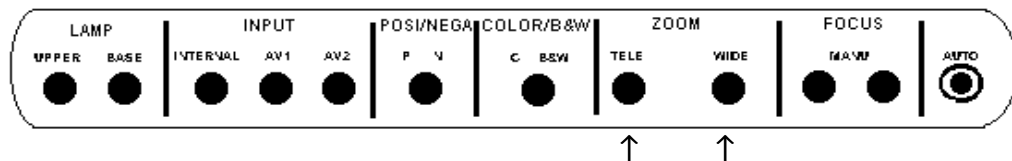


This button is used for viewing black and white material, such as documents. This function allows you to select color or black and white images on the monitors.



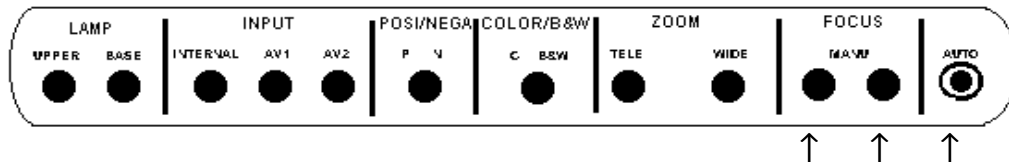
It is advisable to use this mode for viewing the B&W button so that materials such as documents have a clear image with no color blur. For normal use, set to (C) (Color) mode.

Zoom



Zoom function lets you adjust the image size and zoom into a specific section. When (TELE) is pressed, the image gets larger (zoom in). When (WIDE) is pressed, the image gets smaller (zoom out).

Focus



Auto Focus:

This button is used for one-step auto focus. When you press the auto focus button, the indication light is turned ON and OFF during focusing. The Communicator features a one-step auto focus function. Once focusing is completed, the auto focus function is released. Even if the object is moved, the focus remains unchanged. For optimal focusing, set the zoom button at an extreme telephoto position.



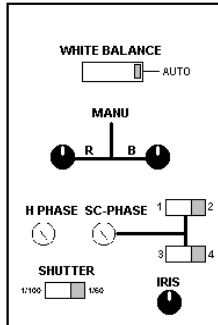
It is difficult to automatically focus on objects under the following conditions. You need to select manual focus in order to clearly view objects in these conditions.

- **Objects bearing little contrast.**
- **Objects with a fine repeated pattern such as lateral stripes, or a checkered pattern.**
- **Bright objects or ones reflecting strong light.**
- **The background of the object is bright.**
- **Picture itself is dark.**
- **Moving objects.**

Manual Focus:

When you press the manual focus during auto focusing, the auto focus function is canceled. Press the focus button (N) or (F) for manual focusing. This function is used to view 3-D objects of which any part can be focused.

Camera Head



White Balance:

This switch is used to select the mode for white balance adjustment. It should be set at [AUTO] for normal use.

Full Auto Mode:

When the white balance switch is at the AUTO position, the camera automatically adjusts to the color temperature and adjusts the white balance. The camera will then automatically follow the change in color temperature of the object.



It is advised to set the white balance switch to AUTO position for normal use.

Manual Mode:

When the white balance switch is at MANU position, you can turn the R (red) and B (blue) knobs while observing the white object on the monitor screen.



It is advised you use the Manual Mode to color your X-rays.

Iris:

This control knob is used to adjust the brightness of the image. Exposure is automatically compensated when the iris control knob is kept at middle position. Exposure can be manually adjusted by turning the iris control knob clockwise or counter clockwise. This is a useful feature to improve contrast on a x-ray or 35mm slide.

LCD Monitor Bracket

The LCD Monitor bracket, is located on the rear of the Communicator. This unit is specially built for DOAR's Communicator. It is a 3" monitor. The bracket included with the 3" monitor slips into this slot. You can look at this monitor to view changing the position of the document or do manual focusing without having to turn and look at the larger monitors.

Stowing Your Communicator

- 1) Turn the power switch 'OFF' before disconnecting the power cord and the video cable.



Be sure to hold the plug firmly when disconnecting. Do not pull the cord out carelessly.

- 2) Fold down the lighting unit arms.



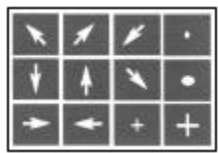
The arm, which is folded down first, should be turned and then the other so the two arms are closely located to the stage.

- 3) Turn the camera head so the lens is pointed down the column. You will feel it click into it's locked position.
- 4) Press the column lock button, and shorten the sub column fully.
- 5) Press the lock release button on the base (UNLOCK), and fold down the main column.

DOAR's Illustrator is used to draw, annotate or position pointers onto information that is represented on the monitor or screen. Each area of the tablet is described in the following sections.

Features & Functions

Input Sources: These icons or buttons are used to change video standards. DOAR sets this up when we configure your system and it usually does need to be changed. The exception to this is when you use the Communicator as a direct video input to be displayed on TV monitors. In this case, you must click on Y/C. To return to High-Resolution output, click on RGB.



Pointers:

you click the desired pointer with the tablet pen the pointer will be 'set' on the screen. You can set the pointer as many times as you want. In order to turn off the pointer you should choose the pointer on/off icon.

To position an active pointer:

1. Position the pointer anywhere on the tablet to make your point. Lightly drag the *tip* across the screen until the active pointer is at the desired location.
2. Reposition the same active pointer anywhere on the video image to make your second point, and continue as often as desired.

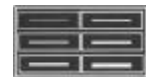
To anchor a pointer:

1. Once a pointer type and pointer color is selected and the active pointer has been positioned, you can anchor the active pointer in its current position. To do this, click the button on the pen while positioning it on your tablet. The pointer will be anchored, and a new active pointer will appear on screen identical to the first.
2. If desired, you can position multiple pointers and anchor them.

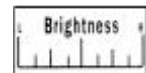
You can anchor as many pointers or drawing lines as desired. Also, each pointer may be changed to a different pointer type before anchoring, or the pointer may be changed to a different color before anchoring.

Switch: These two icons switch between the video or digital inputs and the Chalkboard. When Video icon is pressed the video input will show on screen. If Chalkboard is chosen, a blank screen will appear, allowing you to freely write on the screen. (You may preserve any markings with prints from the Visual Image Printer.)

Thickness: These icons are used to change the thickness of the lines created by the tablet pen. You may change the thickness while highlight by simply clicking on a different area in the bar.



Brightness: This icon controls the brightness of your annotations on the screen. The left of the bar is the darkest and the right is the brightest. Various degrees of brightness may be chosen between.



Pointer On/Off: This icon is used to turn the pointer on or off. If the pointer is turned on, you will see the pointer on the screen. If the pointer is not desired just click on the icon and it will disappear. To get the pointer back, click the Pointer On/Off icon again.



Clear: This icon clears the screen of all illustrations or text. The underlying video or chalkboard is not affected.

Undo: This icon deletes the last illustration or text from the screen.

Control: The control icon allows multiple tablets to take or release control. When you want to 'take control' of the Illustrator from the other pads, you click on Control and start to illustrate. This feature is usually not implemented. To take control, one-person must stop using a tablet and the other begin to use one.

Color Pad: These seven colors may be used to set the color for freehand drawing. Clicking on the color pad will set the chosen color for pointers and freehand drawing. You may change the color while highlight by clicking on a different color on the Color Pad.



DOAR's Visual Image Printer

Features & Functions

The DOAR Visual Image Printer (VIP) is an integrated component of the DEPS controlled through the Remote Control system. Under normal operation, you should utilize the quick "one-touch" operation on the remote to produce a hard copy of the currently displayed image

The DEPS VIP required paper and ink supplies to operate. Instructions for changing paper and installing new ink cartridges are included with the supplies, and your original DEPS manual.

Service & Support

DOAR is available to assist in operating DEPS. Our on-call consultants will work with you to explain how to operate the system. Feel free to call us at (800) 875-8705 with any questions or ideas on how to improve the system. Thank you for purchasing the DOAR Digital Evidence Presentation System.